



Quick Builds: What Are They and How Can They Transform Your Streets?

February 15, 2024

Presented to:



TRANSPORTATION
BONANZA

Presented by:

**Sam
Schwartz**
A TYLin Company

Quick Builds Have Gone International



Temporary Cycleway: Auckland



Pop-Up Bike Lane: Santo Domingo



Pop-Up Bike Lane: Berlin



Slow Streets: Oakland, CA



Pop-Up Bike Lane: Newport, KY



Shared Road: Cebu

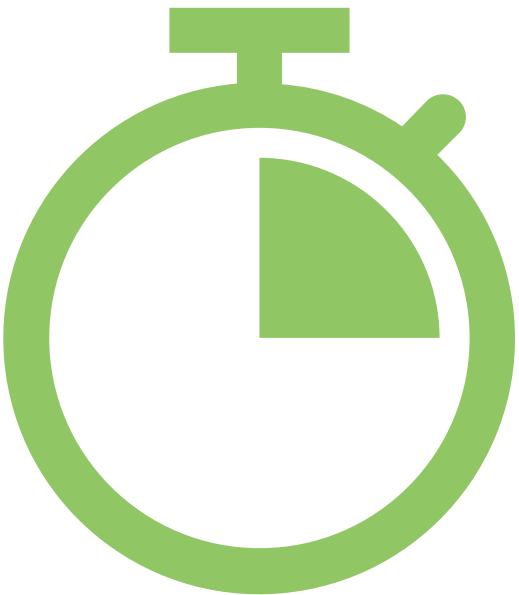
What Goals Can Quick Builds Achieve?

Vision Zero – Systemic and Corridor Safety Enhancements

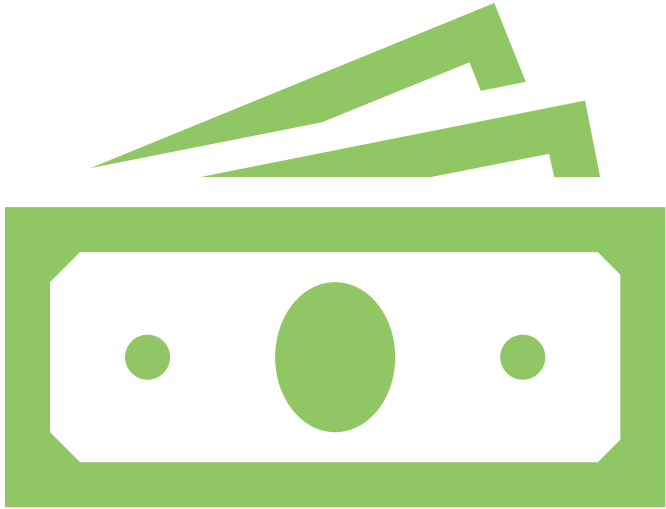
All Ages and Abilities Networks – Expansions, Closing Gaps, and Upgrades

Place Activations – Plazas, Parklets, and Art

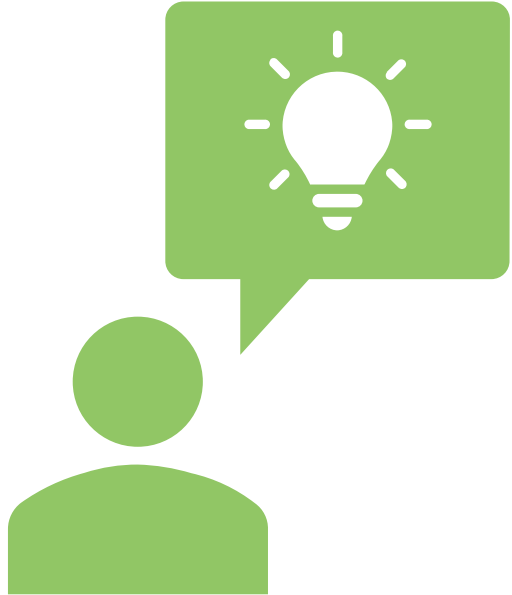
Why Choose Quick Builds?



**Rapid
Installation**



Lower Cost



**Demonstration
Opportunity**



**Unique
Benefits**

Can I Use Quick Builds?

Eligible for SS4A, SRTS/TAP, Public Health Funding

Implementable through Pavement Marking/Resurfacing Projects

Utilize Standard Materials

Enabled in the 11th Edition of the MUTCD

Incorporate FHWA Proven Safety Countermeasures

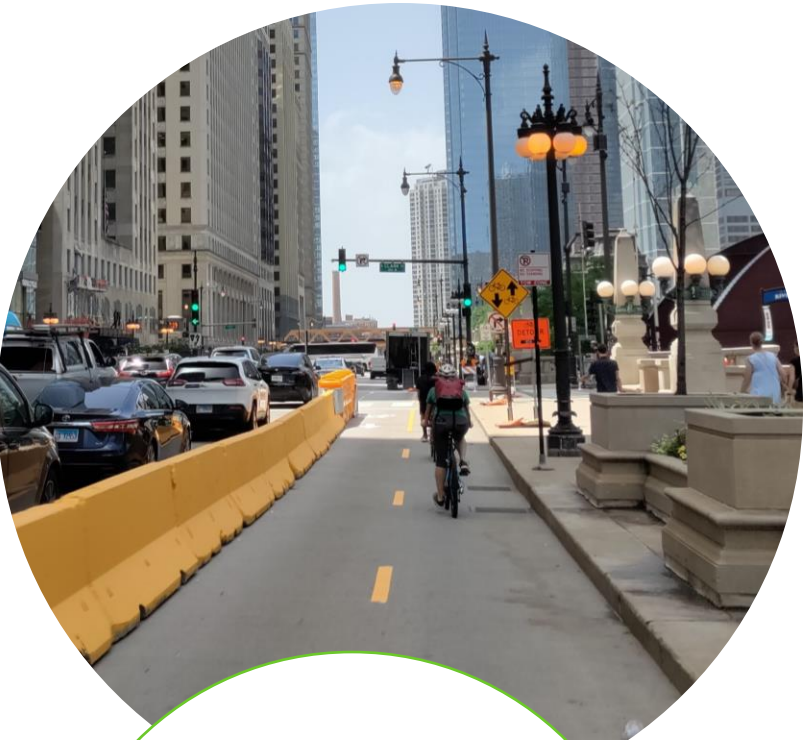
Quick Build Toolkit



Pavement Markings



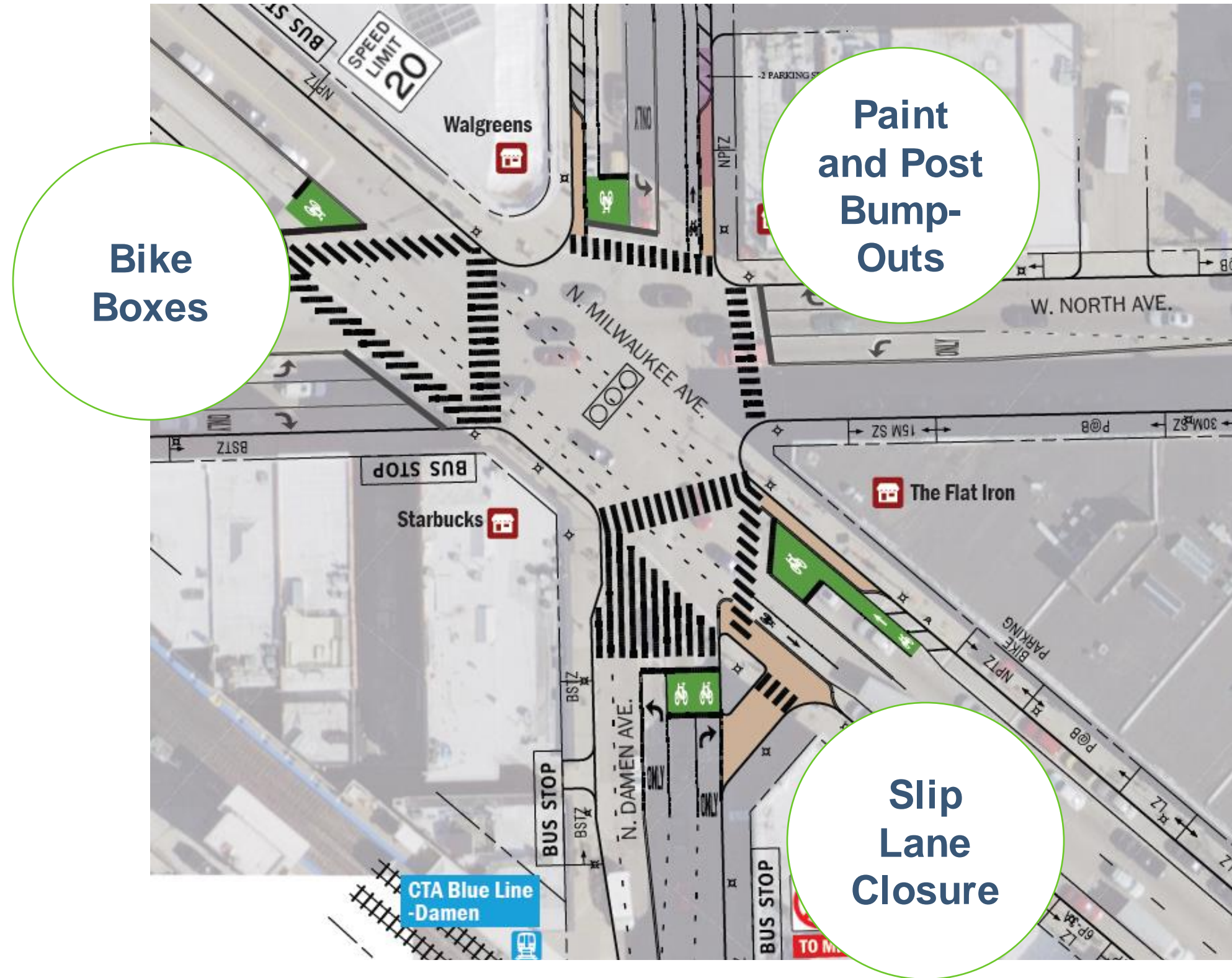
Vertical Delineation



Physical Protection



Quick Builds in Practice: Milwaukee Avenue, Chicago, IL



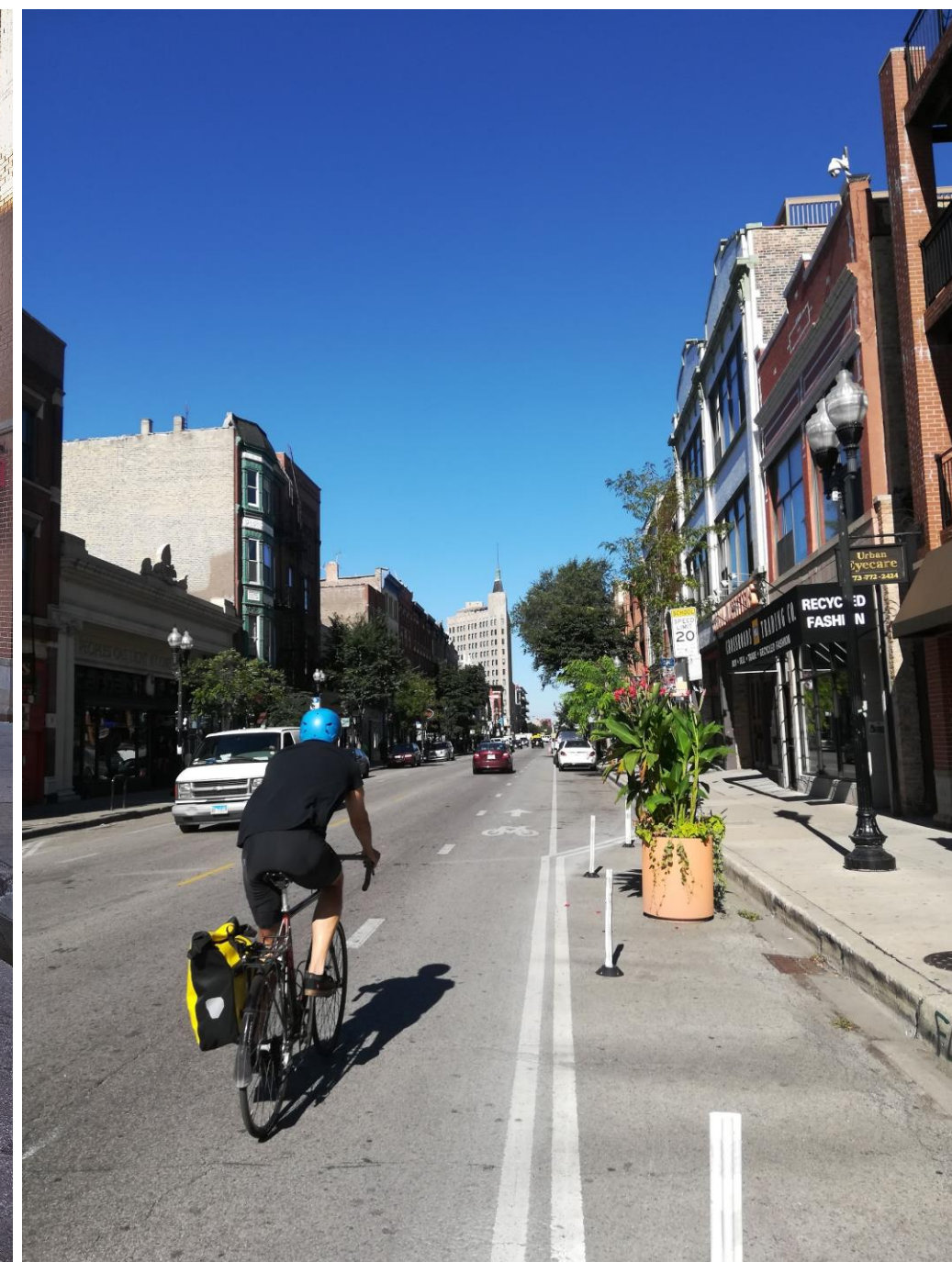
43% fewer people driving over 30 mph

52% fewer people biking in door zone

42% fewer people failing to stop for pedestrians in uncontrolled crosswalks



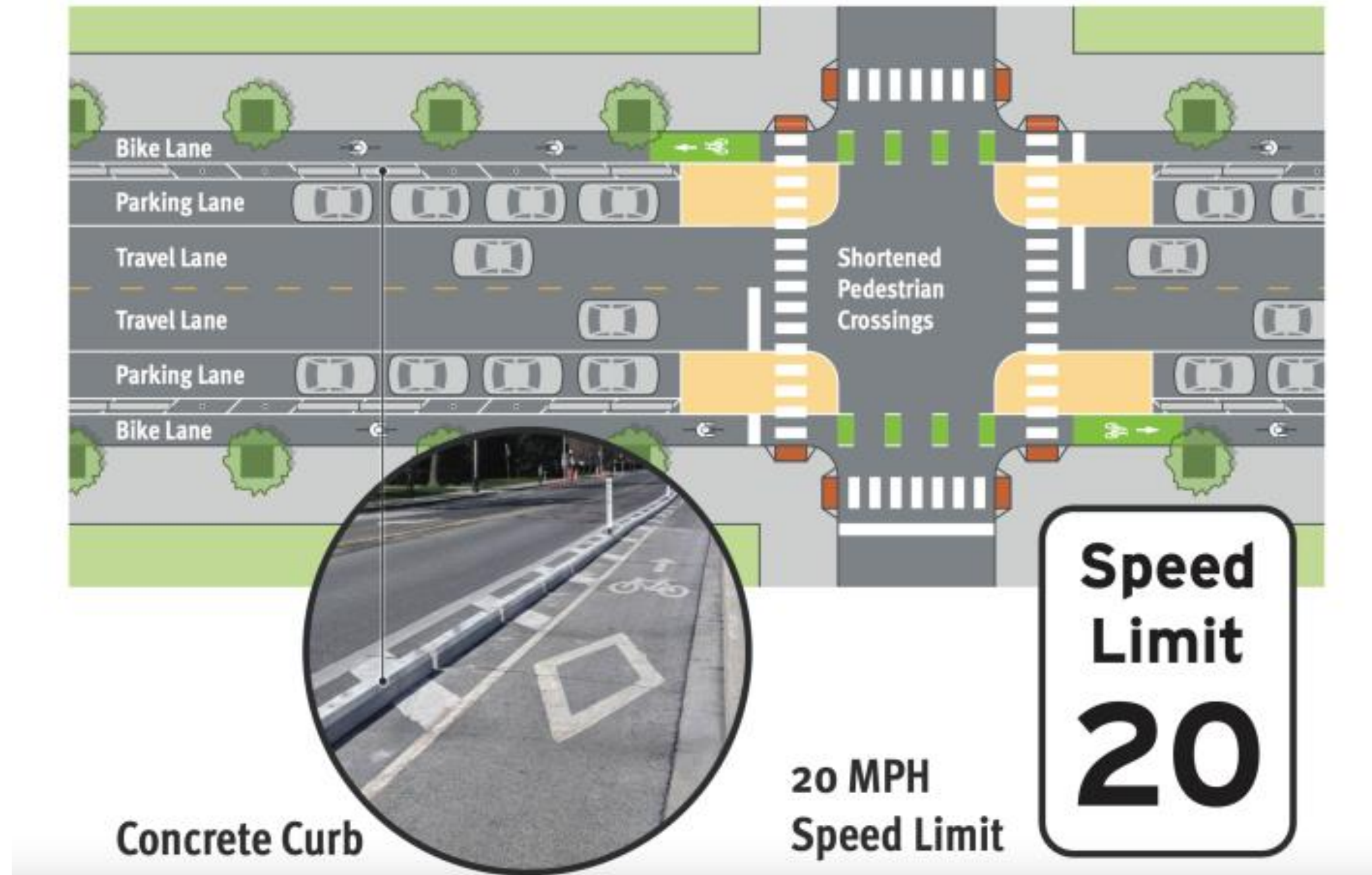
BEFORE



AFTER



Quick Builds in Practice: Augusta Blvd, Chicago, IL



35% decrease in people driving over 30 mph

29% increase in people driver slower than 20 mph

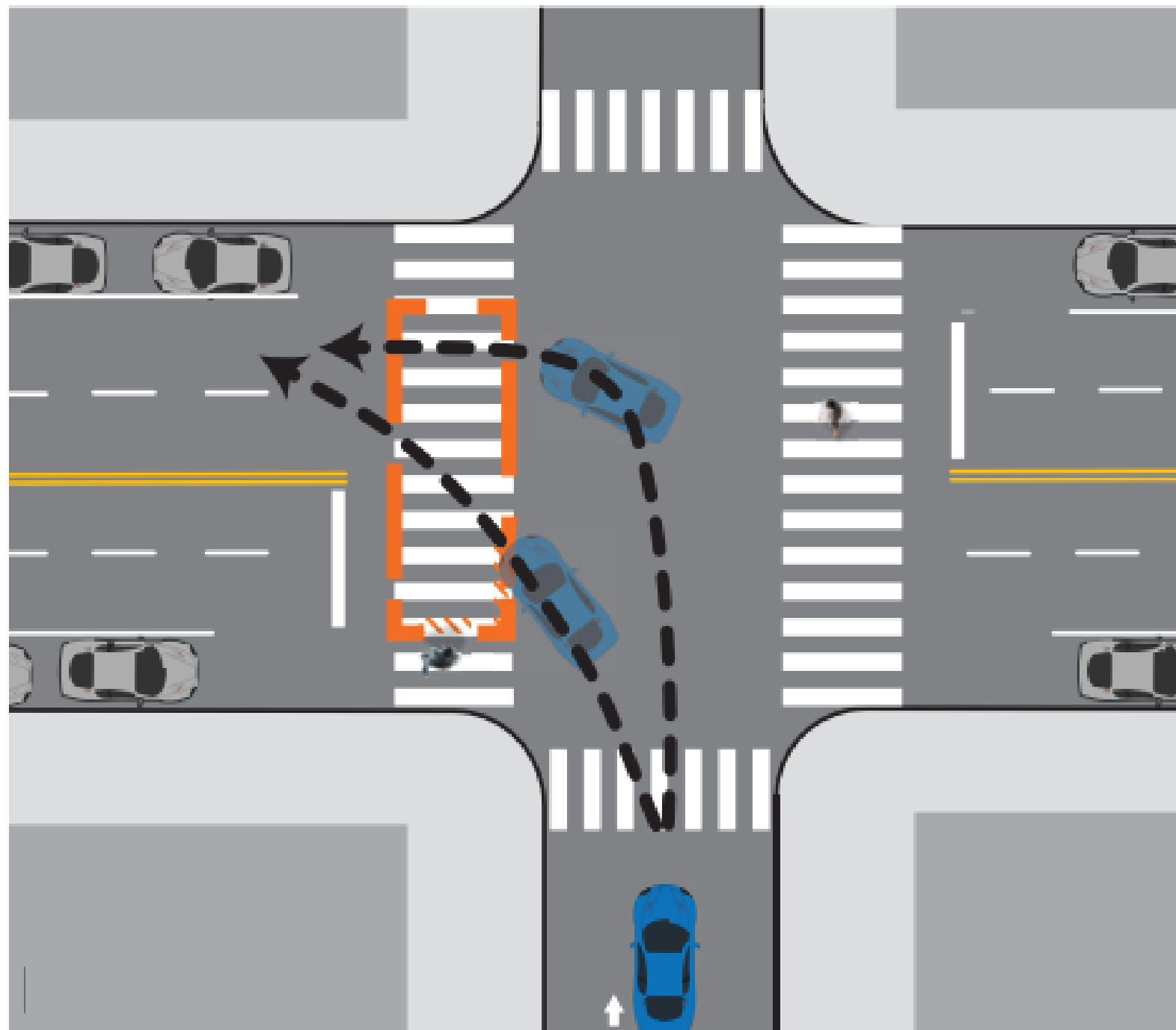


BEFORE

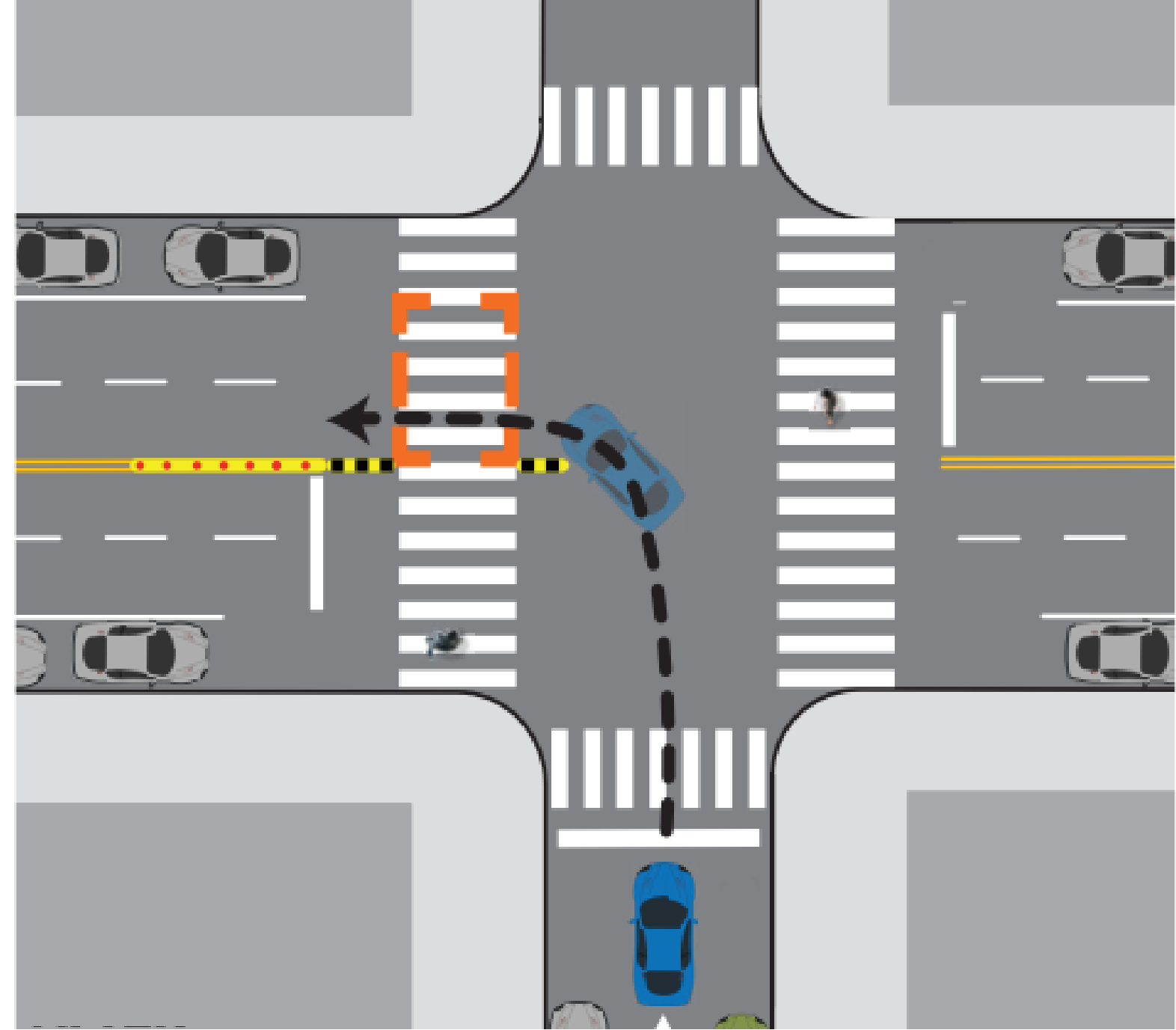


AFTER

Expanding the Tool Box: Left Turn Traffic Calming

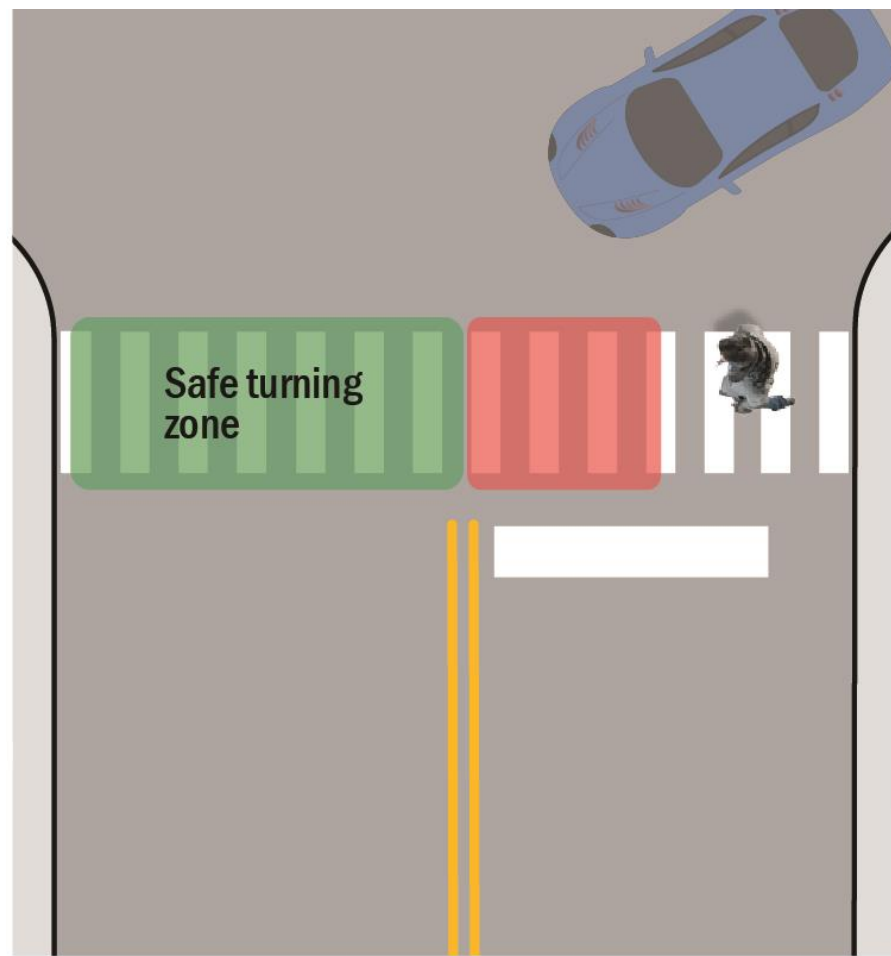


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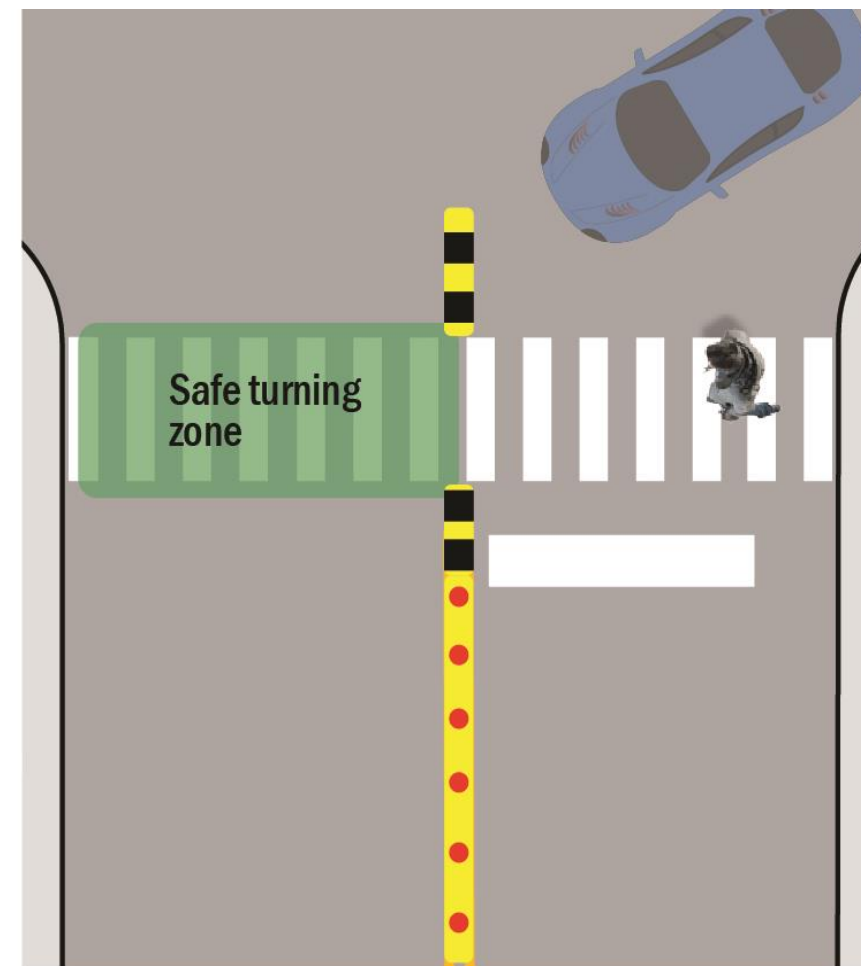


AFTER

Why Install Left Turn Traffic Calming?



BEFORE



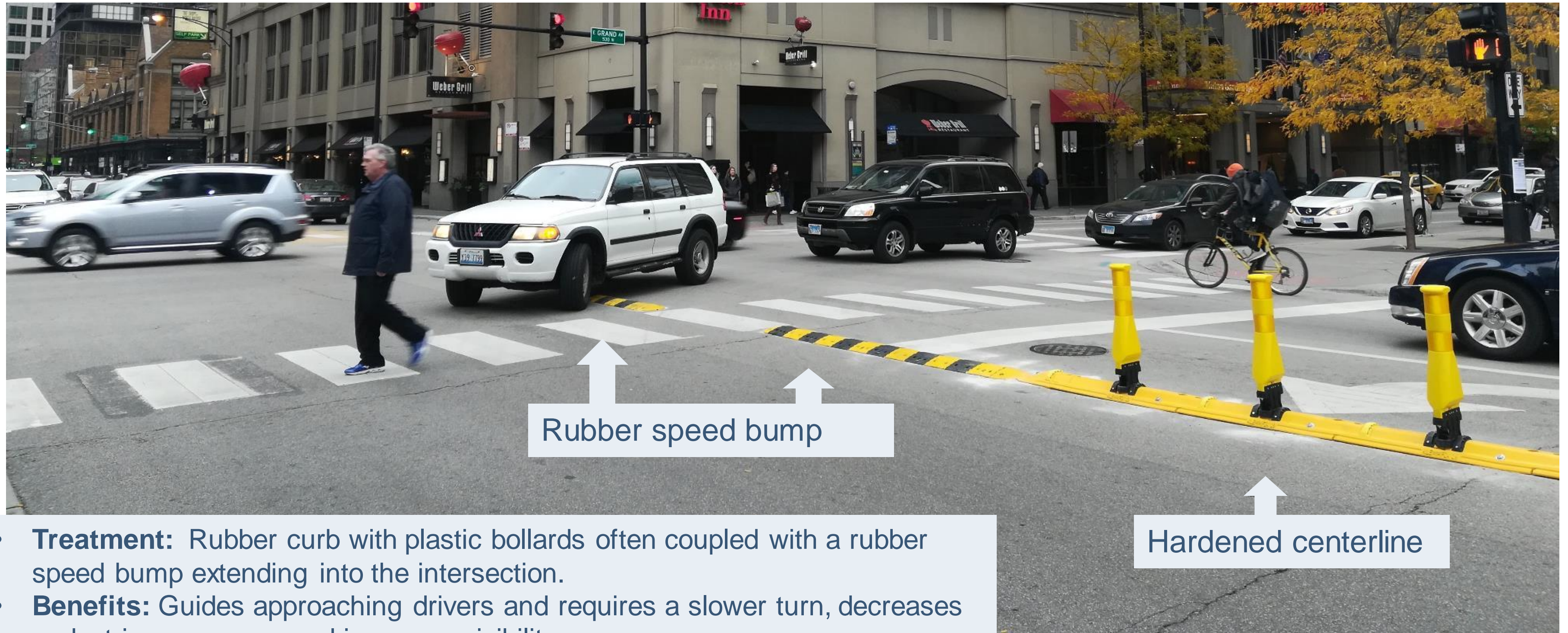
AFTER

Encourages drivers to take turns at slower speeds.

Improves drivers' visibility of pedestrians crossing the street.

Guides drivers to take a safer path when turning left.

LTTC Tool: Hardened Centerline



Rubber speed bump

Hardened centerline

- **Treatment:** Rubber curb with plastic bollards often coupled with a rubber speed bump extending into the intersection.
- **Benefits:** Guides approaching drivers and requires a slower turn, decreases pedestrian exposure and improves visibility.

LTTC State Street Pilot, Chicago

LTTC Tool: Slow Turn Wedge



Slow Turn
Wedge

- **Treatment:** rubber speed bump in hashed-out area that reduces turn radius; can be paired with paint/post bump-outs.
- **Benefits:** Guides approaching drivers and requires a slower, tighter turn and mitigates visibility issues.

LTTC Citywide Deployment, Chicago

LTTC Outcomes - National

Chicago – State St



Findings

- Proportion of drivers yielding to pedestrians **rose 12%**

New York City, NY



Findings

- Left turn **speeds reduced 10-20%**
- Pedestrian injuries **reduced 20%**

Portland, OR



Findings

- Turning speeds **reduced by an average of 13%**

Washington, DC



Findings

- Left turn conflicts with pedestrians **reduced 70%**
- Speeds **reduced 10%**

LTTC Outcomes – Chicago State Street Pilot

Drivers are more likely to yield to people walking:

Before installation,

80%

of drivers yielded to pedestrians.



After installation,

95%

of drivers yielded to pedestrians.

Drivers take safer turning paths:

Before installation,

85%

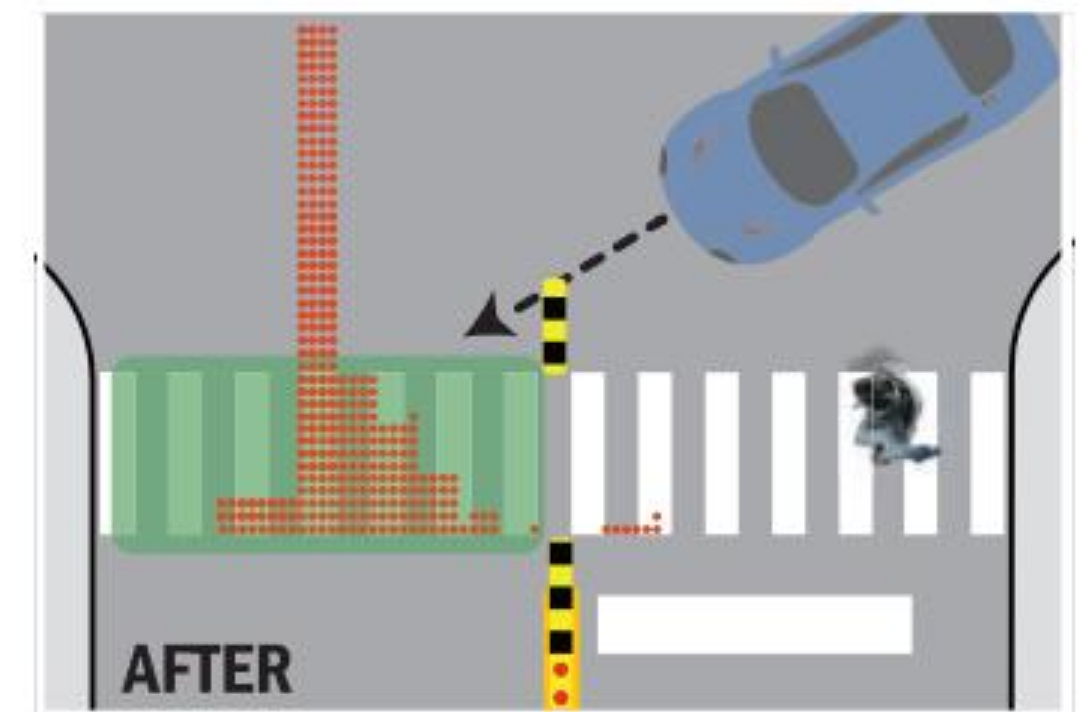
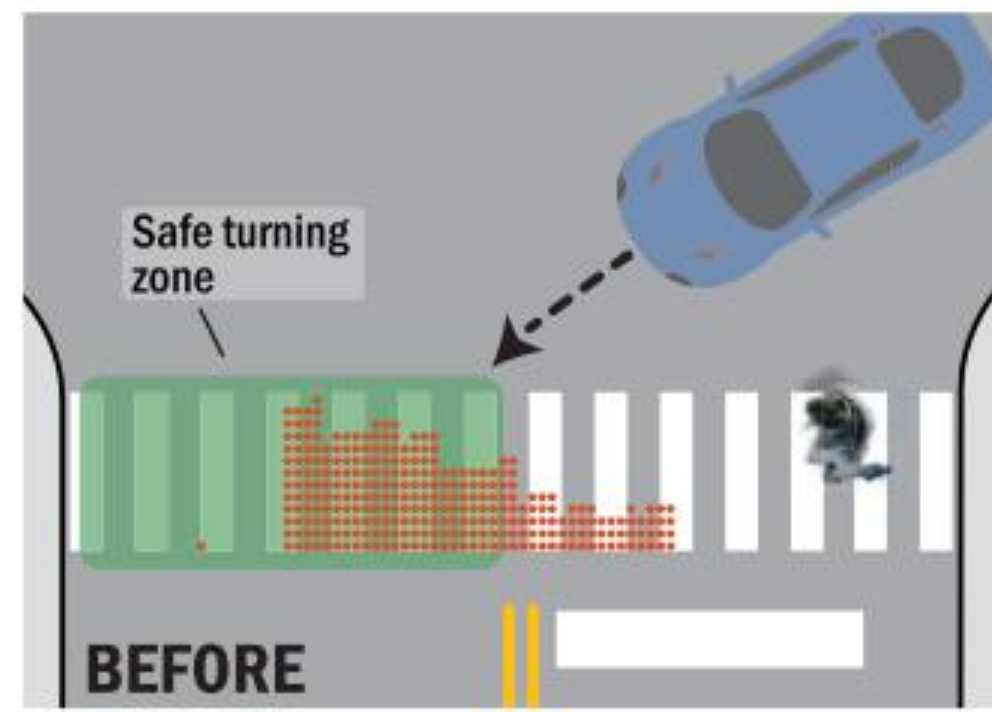
of drivers traveled through the **safe turning zone**.



After installation,

98%

of drivers traveled through the **safe turning zone**.



Frequency distribution of where drivers crossed the crosswalk (representational).

↓ 24%
reduction in
left turn crashes

↓ 24%
reduction in
total crashes

LTTC Outcomes – Chicago Citywide Deployment

Portion of drivers yielding to people walking:



Portion of drivers turning within the safe zone:

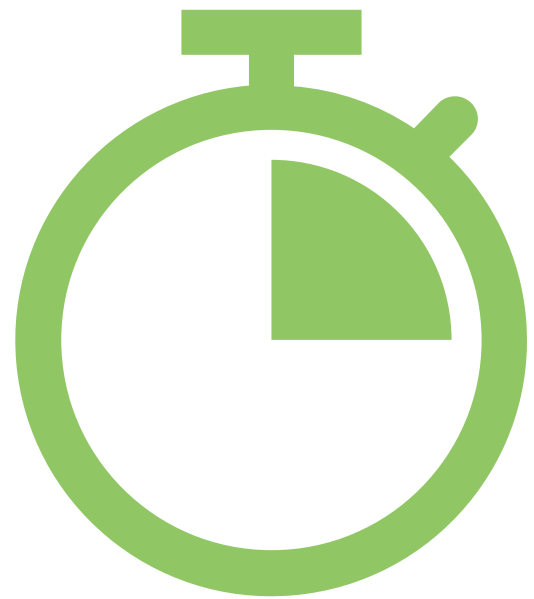


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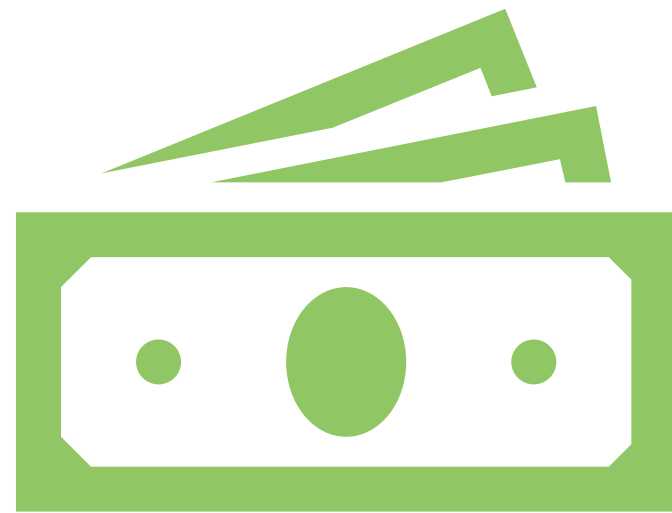
“I walk my dog across Ashland daily... With the [left turn traffic calming] improvements, I can safely step forward and look for oncoming vehicles. Also, because I am more visible crossing the street, vehicles are much more likely to slow down, and many even stop.”

Ravenswood resident, regarding LTTC installations at N Ashland Ave & W Sunnyside Ave

Why Choose Quick Builds?



**Rapid
Installation**



Low Cost



**Demonstration
Opportunity**



**Unique
Benefits**



**SS4A
Eligible**



**THANK
YOU!**

Eric Hanss, Associate
eric.hanss@samschwartz.com

Making Streets Safer for Everyone

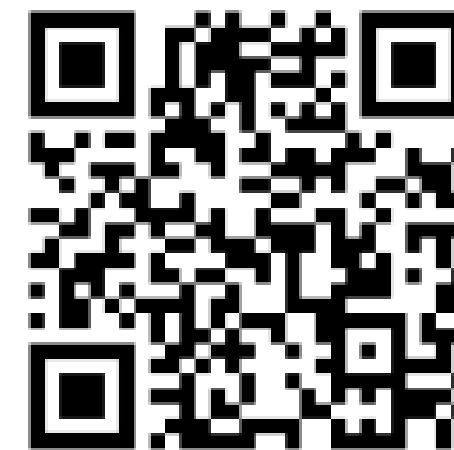
ANN ARBOR
MOVING
TOGETHER

TOWARDS VISION ZERO

Quick Build Street Projects

Quick Build projects:

- Slow traffic, making roads safer for everyone
- Test options before making permanent, expensive changes



LEARN MORE

Ann Arbor's Mobility Goals



Zero Deaths by 2025

No one dies or is seriously injured in crashes on Ann Arbor's streets



Carbon Neutrality by 2030

Our transportation system contributes zero emissions towards climate change.

Tier 1 and Tier 2 Corridors and Intersections

Layers

Layer Legend

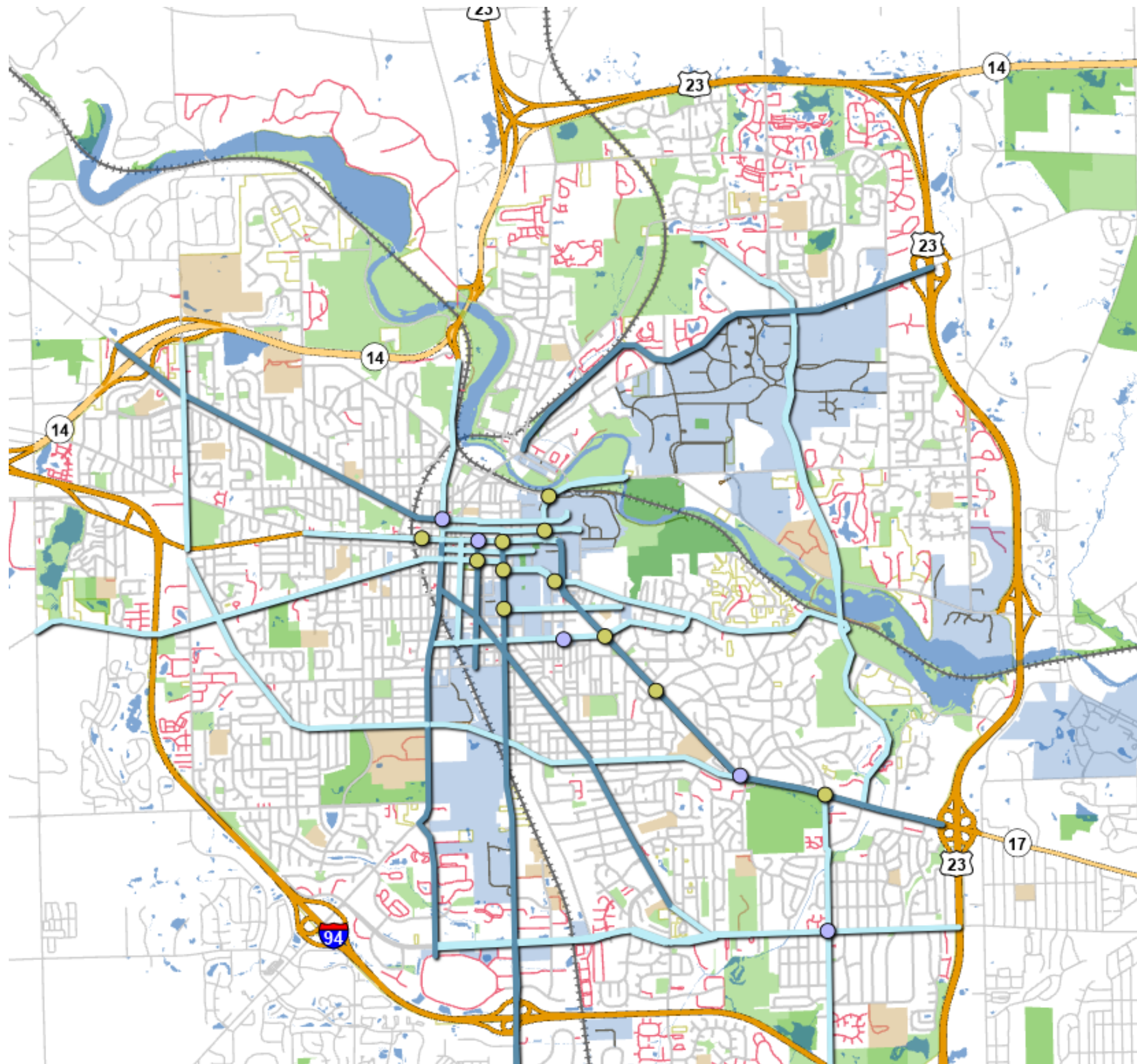
Transportation Plan

Focus Intersections

- 1
- 2

Focus Corridors

- 1
- 2



Addressing Dangerous Behaviors



Speed



Failure to Yield



Impaired Driving



Disregarded traffic signs/signals



Reckless/careless driving

Vision Zero - Quick Builds



Ann Street



Ann Street



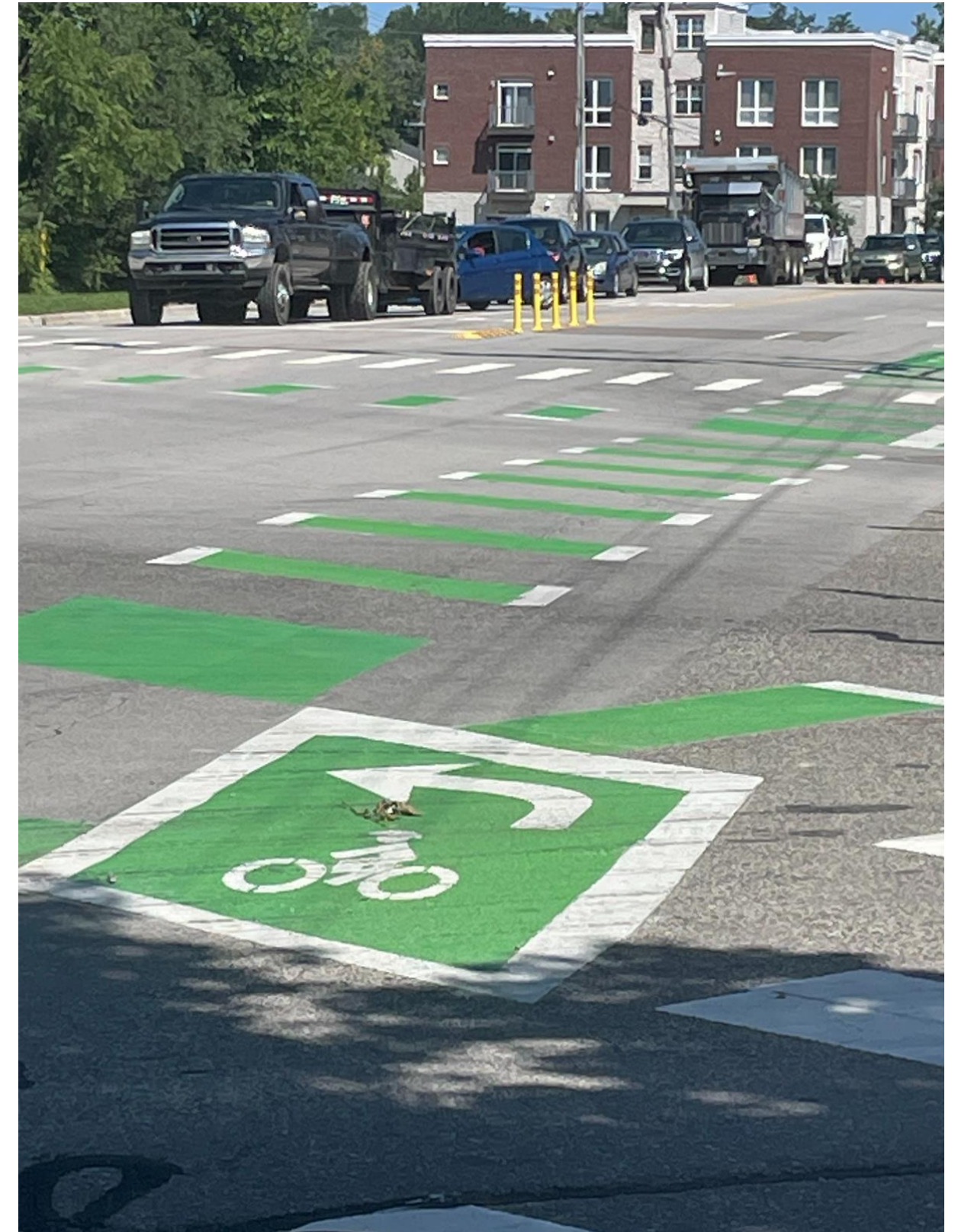
Glen at Fuller



Liberty at Stadium



Maple at Miller



Packard



South University at State



Extending Existing Infrastructure



Division St. Cycletrack
Extension



We Don't Always Hear From People Who Love Our Work



"I just wanted to express my gratitude for the line painting around the Dexter/Maple [...] I really appreciate the dotted bike lane markings through the intersections there! I know it's only paint, but it definitely makes me feel safer, especially when biking my daughter to and from preschool." - Ward 5 resident

Measuring Success

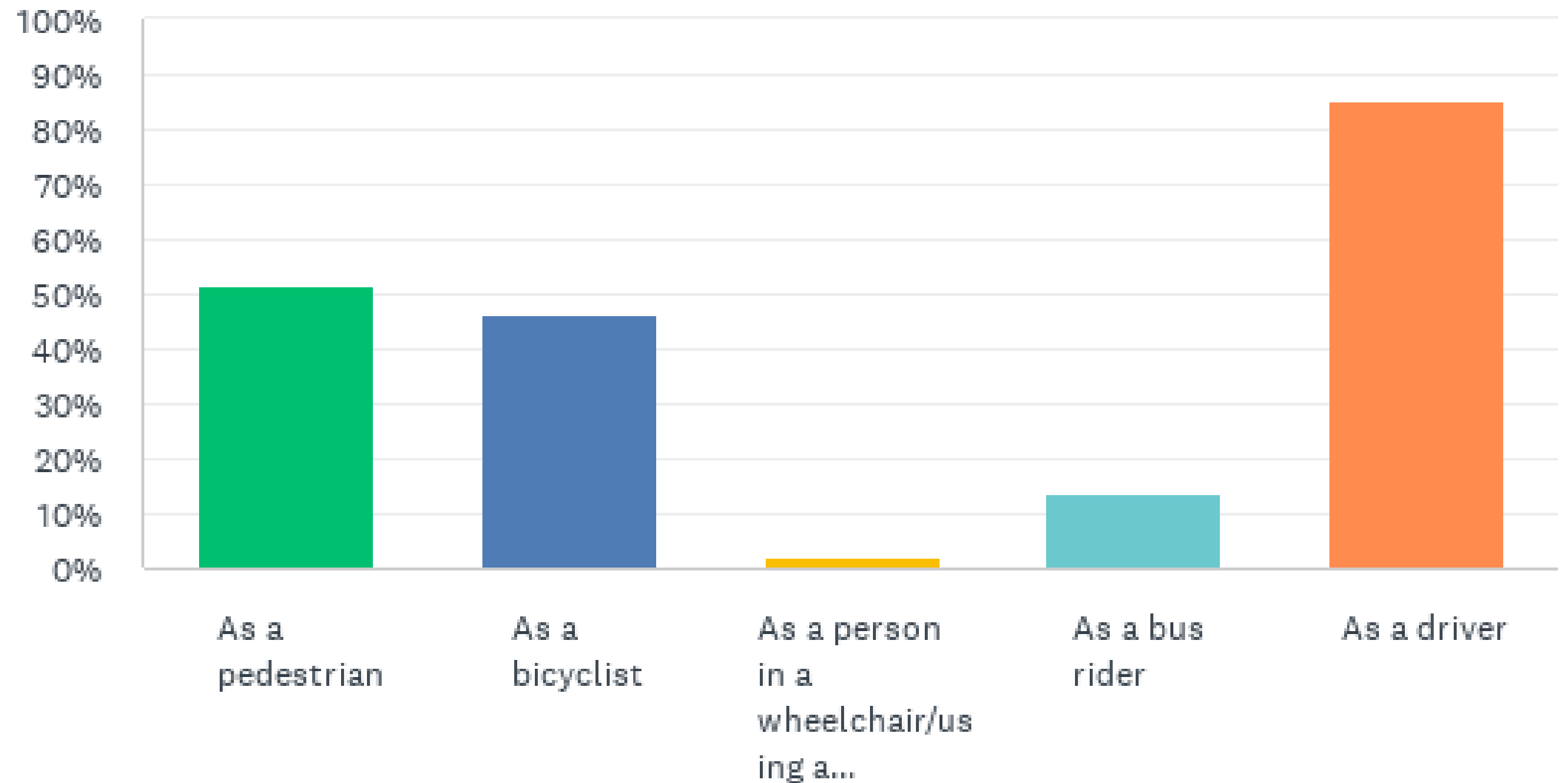
SEPTEMBER 2023 – 40,000 bicycle trips!

BIKEWAY	MONTHLY COUNT	WEEKLY AVERAGE	DAILY AVERAGE
WILLIAM @ THOMPSON	21,146 <i>High ridership steady since 2021</i>	5,287	755
DIVISION @ WASHINGTON	11,540 <i>240% Increase since construction</i>	2,885	412
CATHERINE @ FOURTH *	6,487 <i>152% Increase since construction</i>	1,817	260
TOTAL	39,173	9,989	1,427

*Not installed until Sept 5th

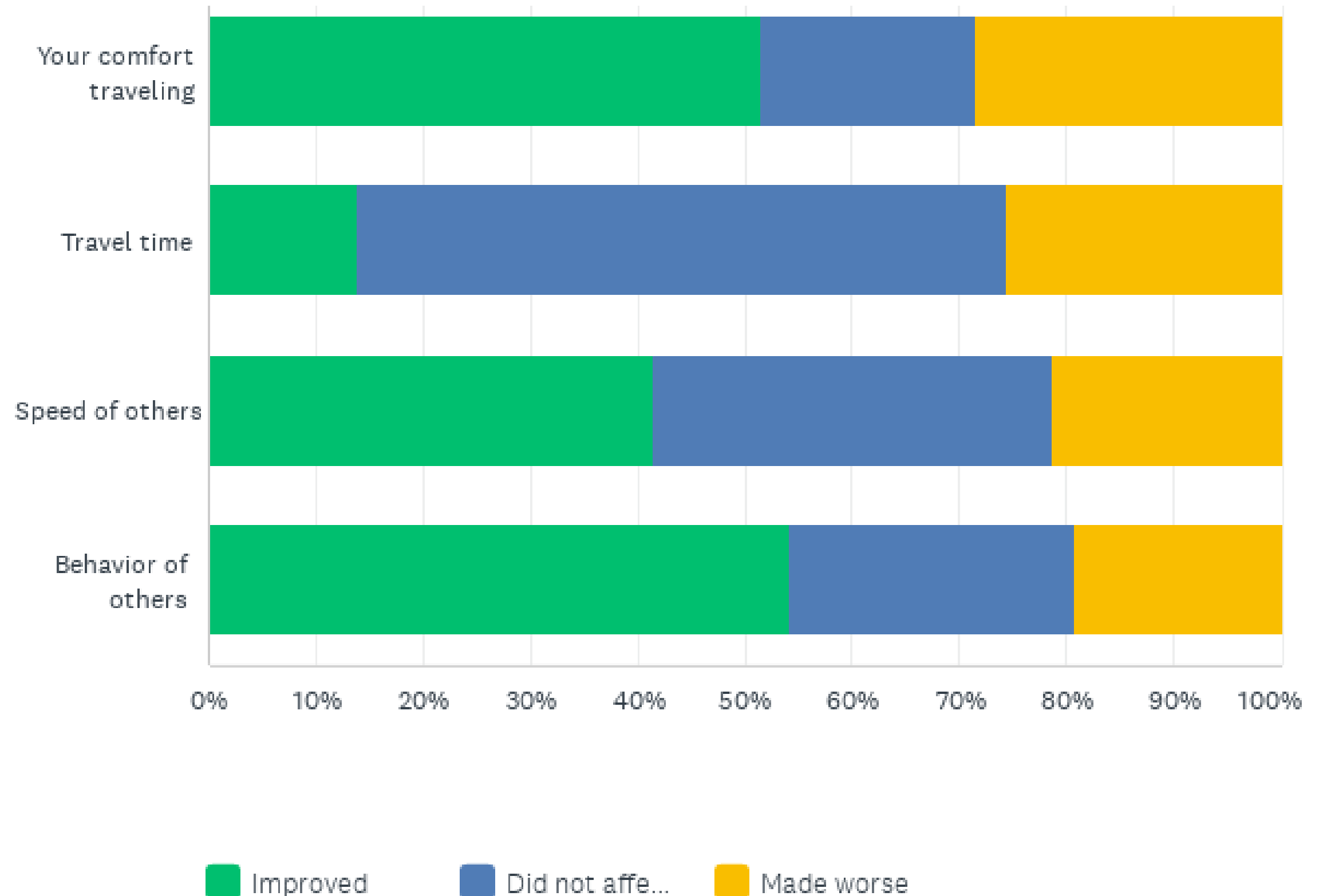
Measuring Success

**Question 3 -
How did you
travel the Quick
Build project(s)?**



Measuring Success

Question 4 - How did the Quick Build Elements impact the following factors as you traveled?







Suzann Flowers

Transportation Program

Manager

City of Ann Arbor

sflowers@a2gov.org



Let's Try It Out! MnDOT's Active Transportation Demonstration Projects



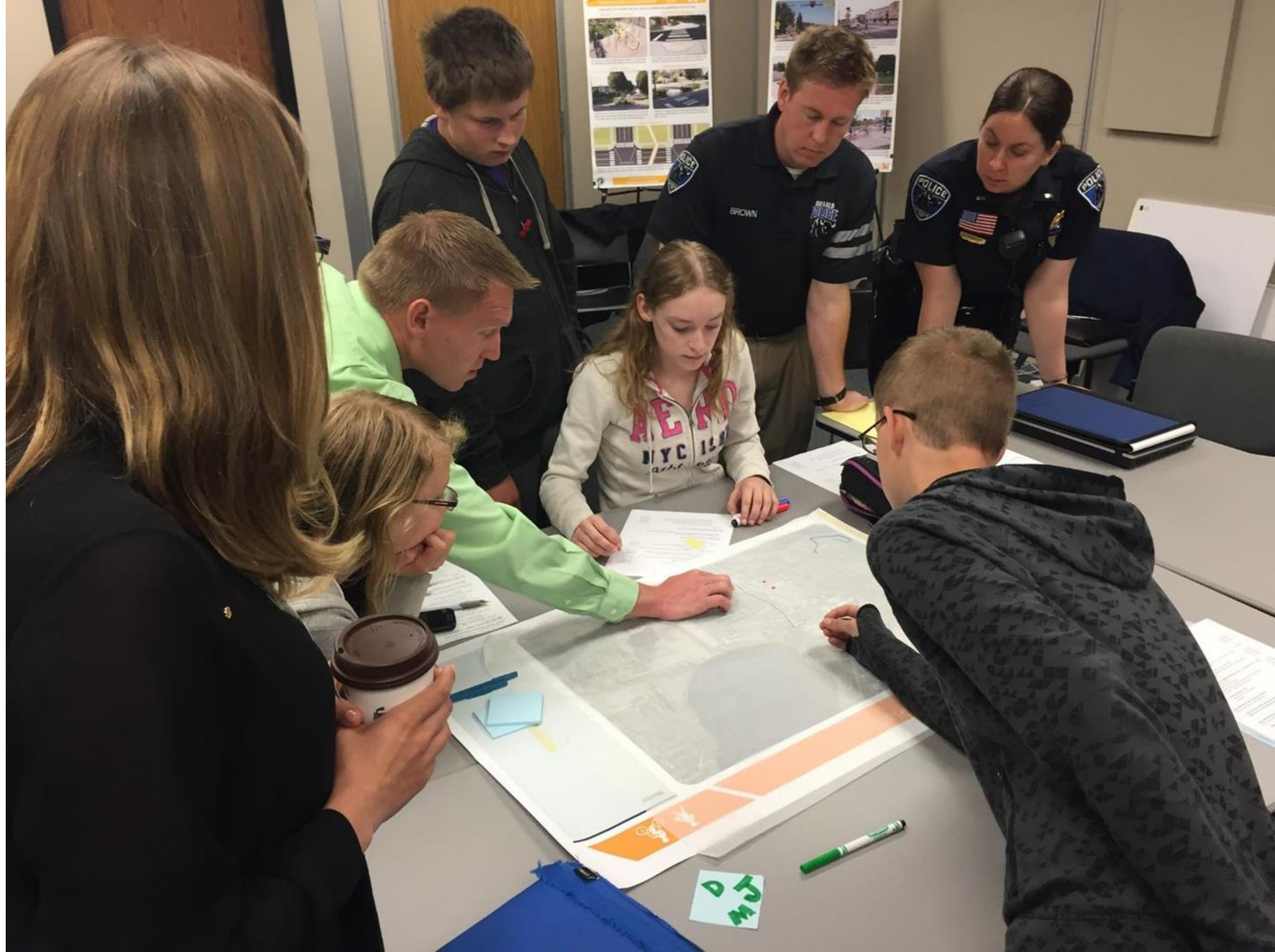
Dave Cowan, Director of Consulting and Program Support
Safe Routes Partnership
January 26, 2023



Context Setting: SRTS in Minnesota



- Safe Routes to School in Minnesota
- Piloting Demo Projects
- How Minnesota began implementing widespread Demonstration Projects
- What's next?





LEGENDARYTV.COM

School

- Principal/administrators
- Parents and students
- Teachers (SPeD too)
- PTA/PTO representative
- School nurse
- School district transportation director
- School improvement team
- Adult school crossing guards

Community


- Community members
- Neighborhood or community association members
- Local businesses
- Local pedestrian, bicycle and safety advocates
- Groups representing people with disabilities

Gov.


- Mayor's office or council member
- Transportation or traffic engineer
- Local planner
- Public health professional
- Public works representative
- Law enforcement officer
- Pedestrian and bicycle coordinator

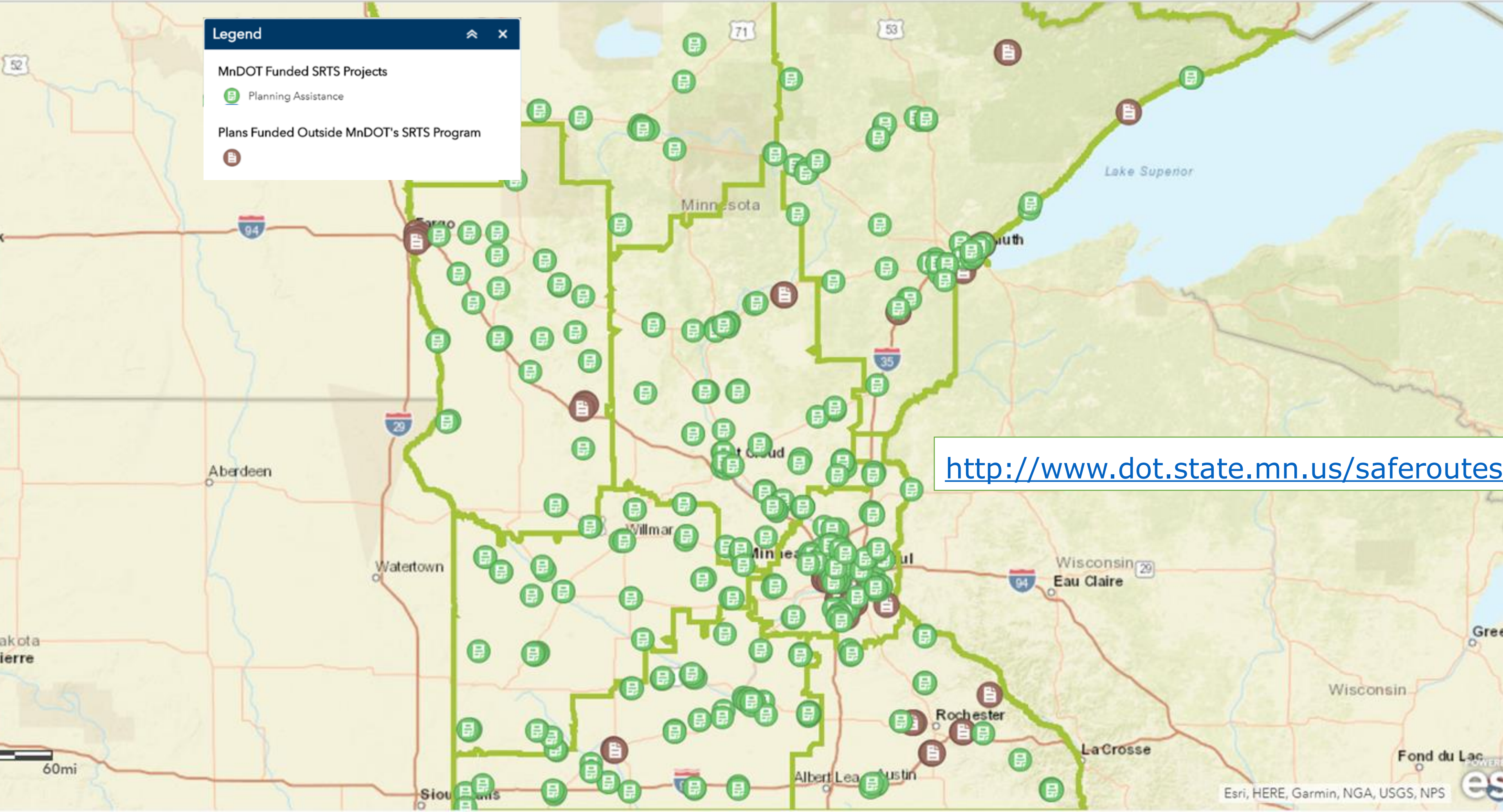
Legend [Close] [Maximize]

MnDOT Funded SRTS Projects

-  Planning Assistance

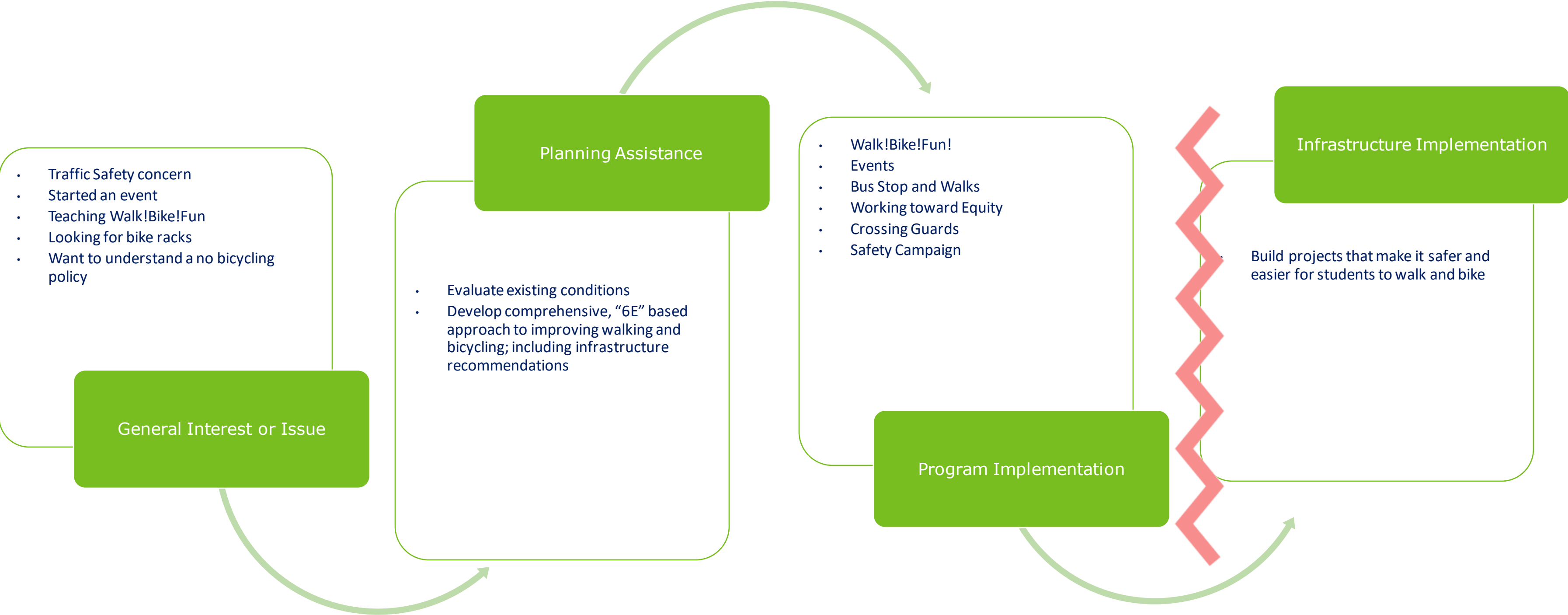
Plans Funded Outside MnDOT's SRTS Program

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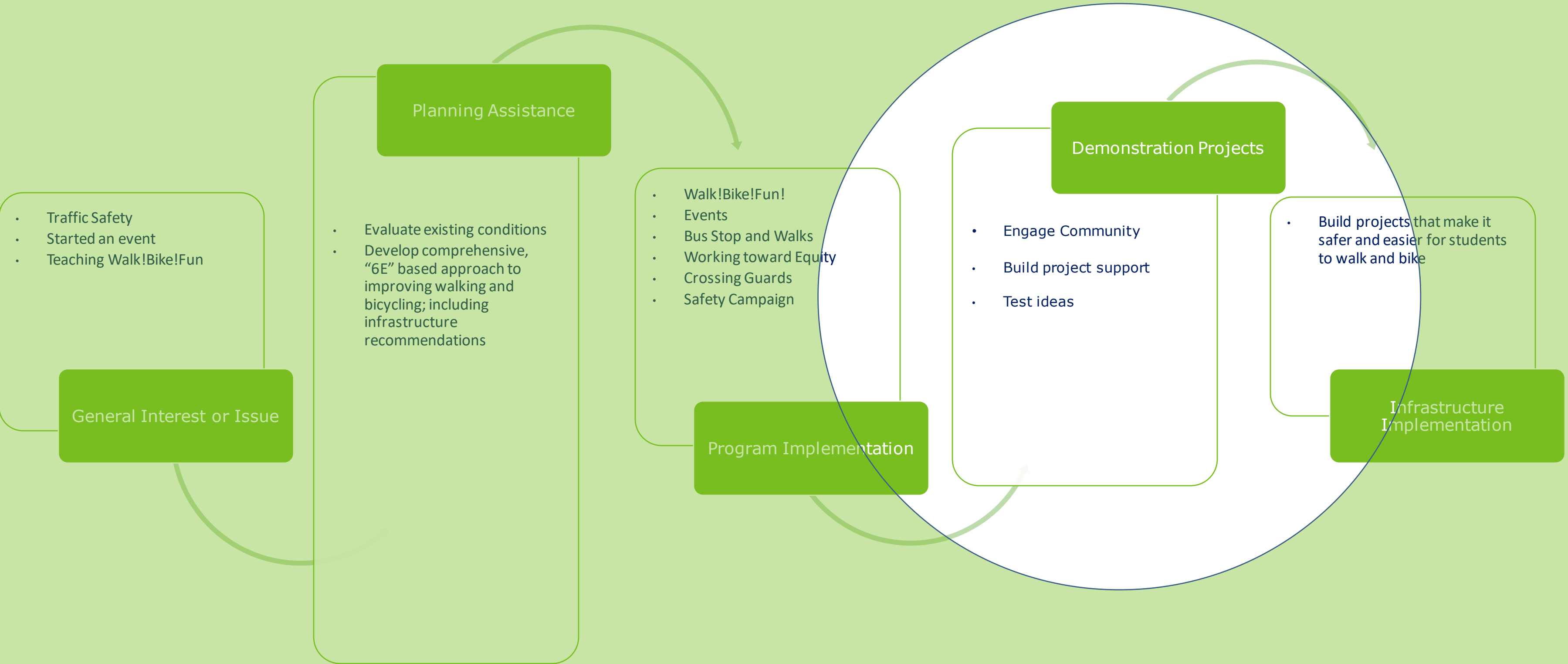


<http://www.dot.state.mn.us/saferoutes>

Minnesota Safe Routes to School Continuum



Minnesota Safe Routes to School Continuum



What is a demonstration project?

- Short term, low-cost, temporary roadway projects
- Pilot and evaluate long-term design solutions to improve walking, bicycling and public spaces
- Examples: bicycle lanes, crosswalk markings, curb extensions, and median safety islands



Why consider a demonstration project?



- Evaluate a project before investing in more expensive and long term materials
- Inspire action and build support
- Develop public awareness of conceptual design options
- Increase public engagement by inviting stakeholders to try new infrastructure treatments

Why consider a demonstration project?

- Increase understanding of active transportation needs in the community
- Strengthen relationships between government agencies, schools/districts, elected officials, non-profit organizations, local businesses, and residents
- Gather data from real-world use of streets and public spaces

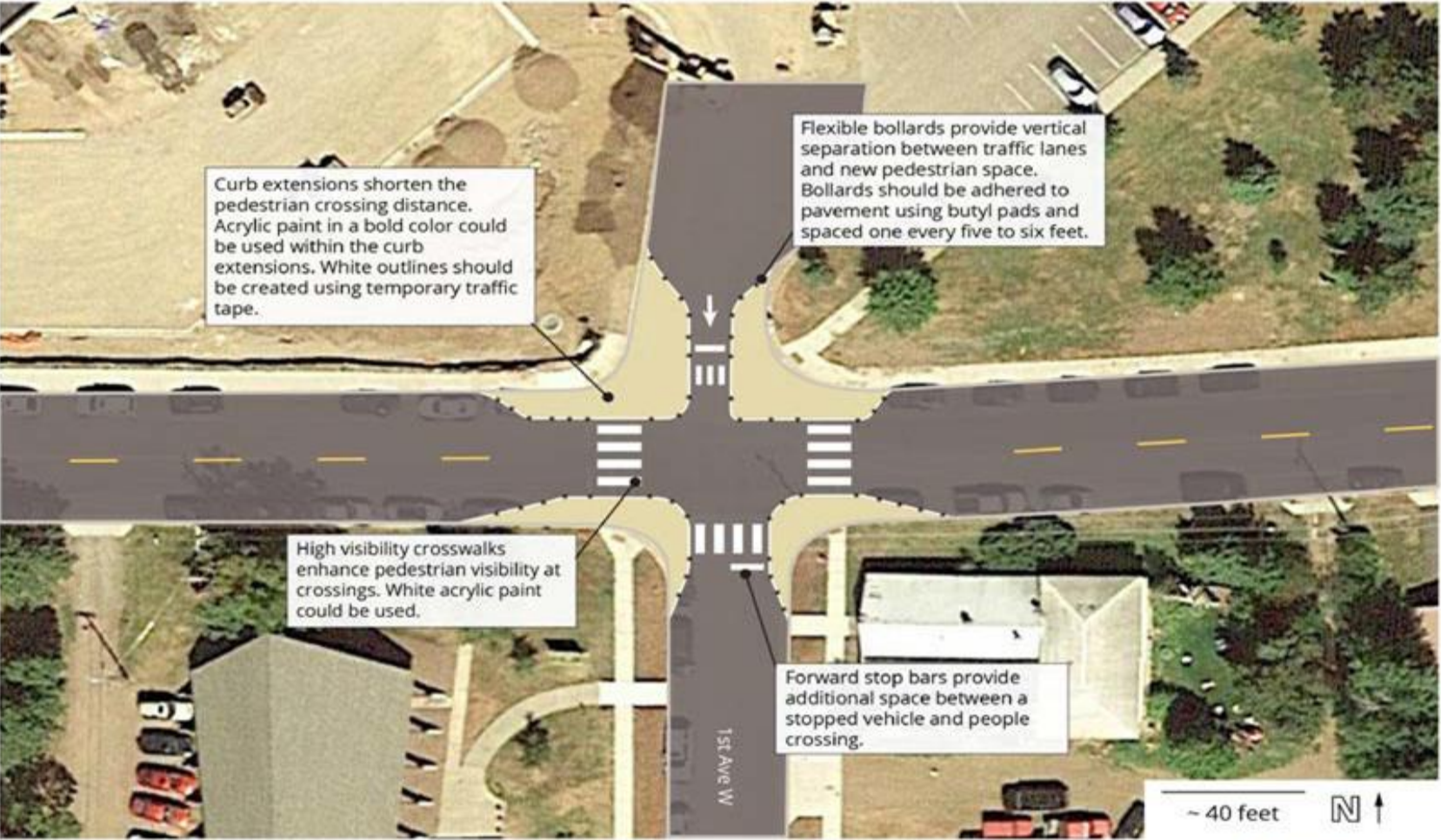


What isn't a demonstration project?

- Public health partners intent
- Local road authority interpretation
- Ultimate goal being achieved



Pilot Project: Grand Marais, MN



Proposed Demonstration Project Improvements
 County Road 7 & 1st Ave W - Grand Marais, MN
 MnDOT SRTS Demonstration Projects, Spring 2018



Proposed Demonstration Project Improvements
 Parking lot, Cook County YMCA - Grand Marais, MN
 MnDOT SRTS Demonstration Projects, Spring 2018



Grand Marais Lessons Learned



Learning from Mistakes



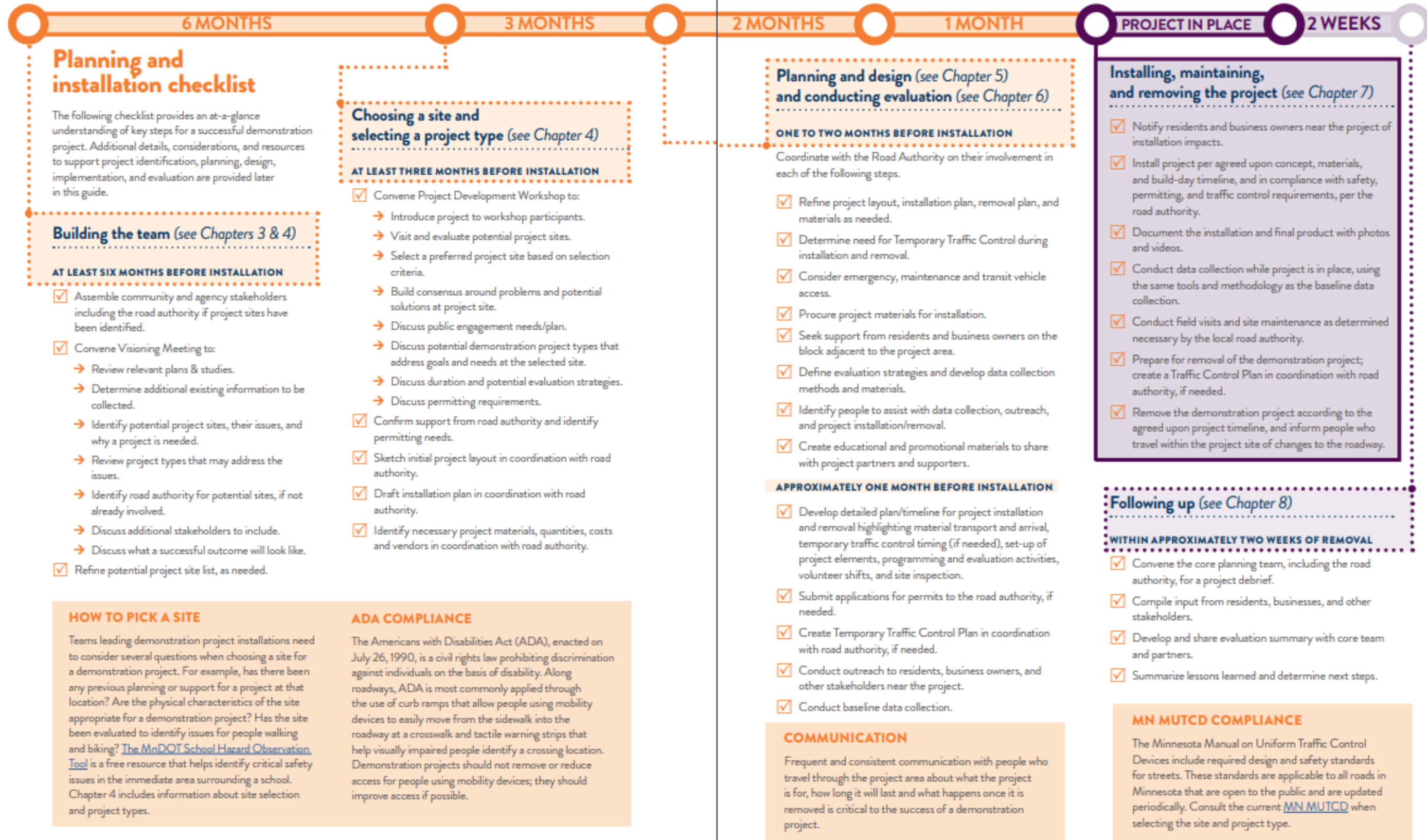
- Grand Marais Project backlash – pilots to guidance
- Engaged all partners (including RA) in all steps of the process (pg 10, 11 of demonstration project guide)
- More specific guidance on material selection
- Formation of TAC to provide oversight for developing guidance and implementing projects

What is the purpose of the Demonstration Project Guide?



- Addresses the issue of permissions, process, and decision making at the policy level but also provides:
 - Guidance on engaging stakeholders
 - Process for identifying a location
 - Process for developing a design concept
 - Descriptions of typical demonstration projects and what types of issues they address
 - Guidance on types of evaluation to perform

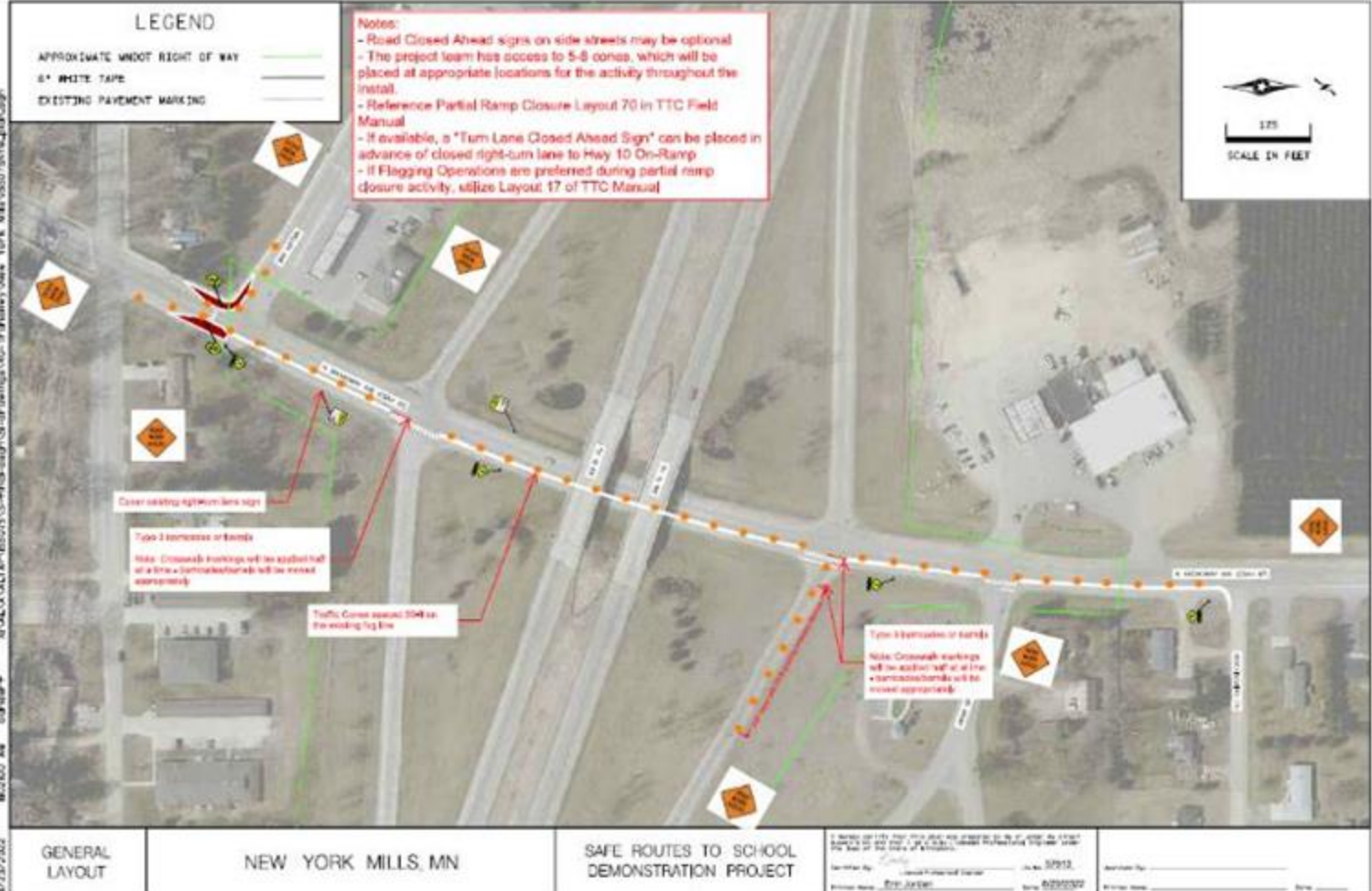
Process Recommendation from Demonstration Project Guide



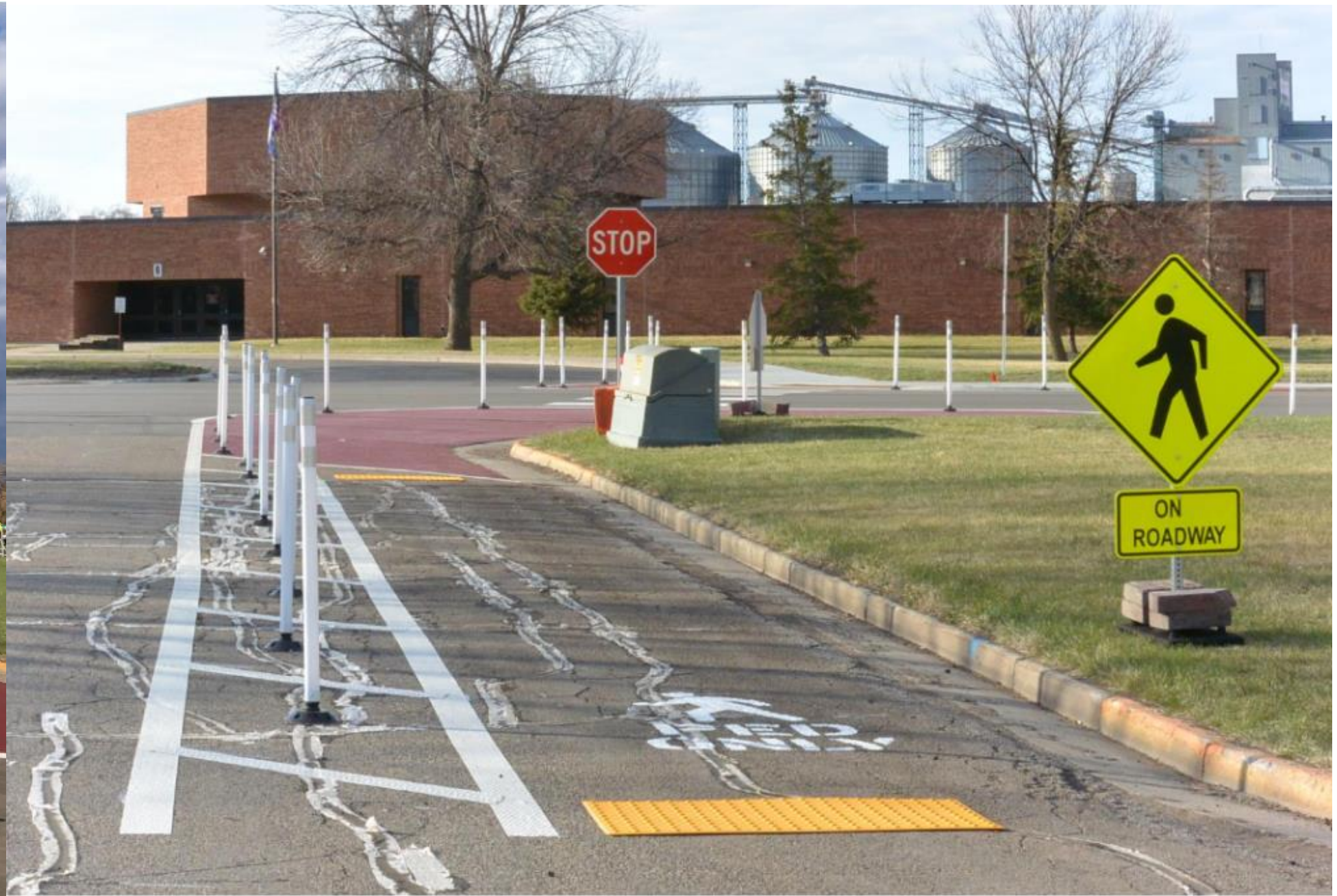
Example Projects!



New York Mills, MN



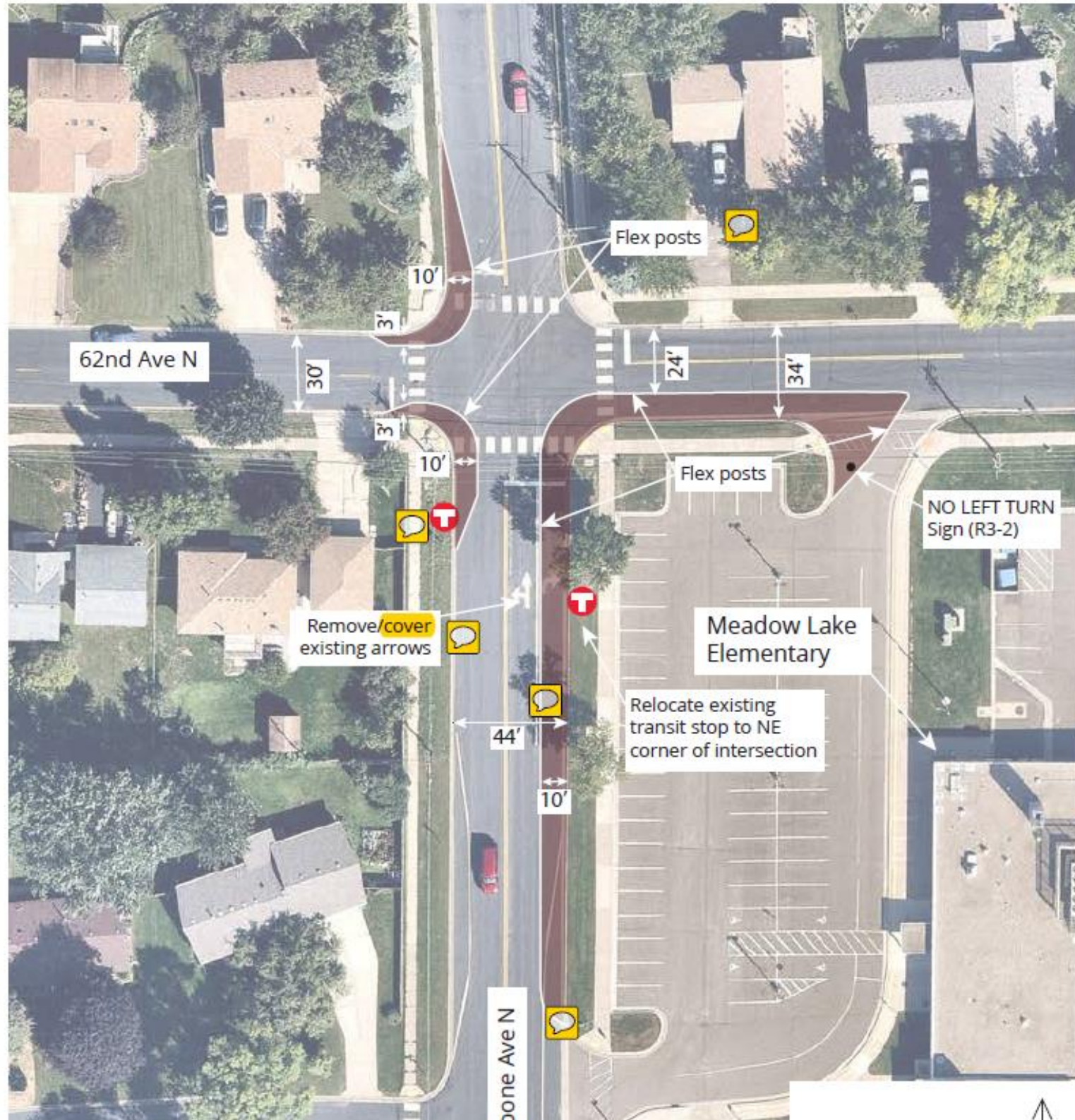
Warren, MN



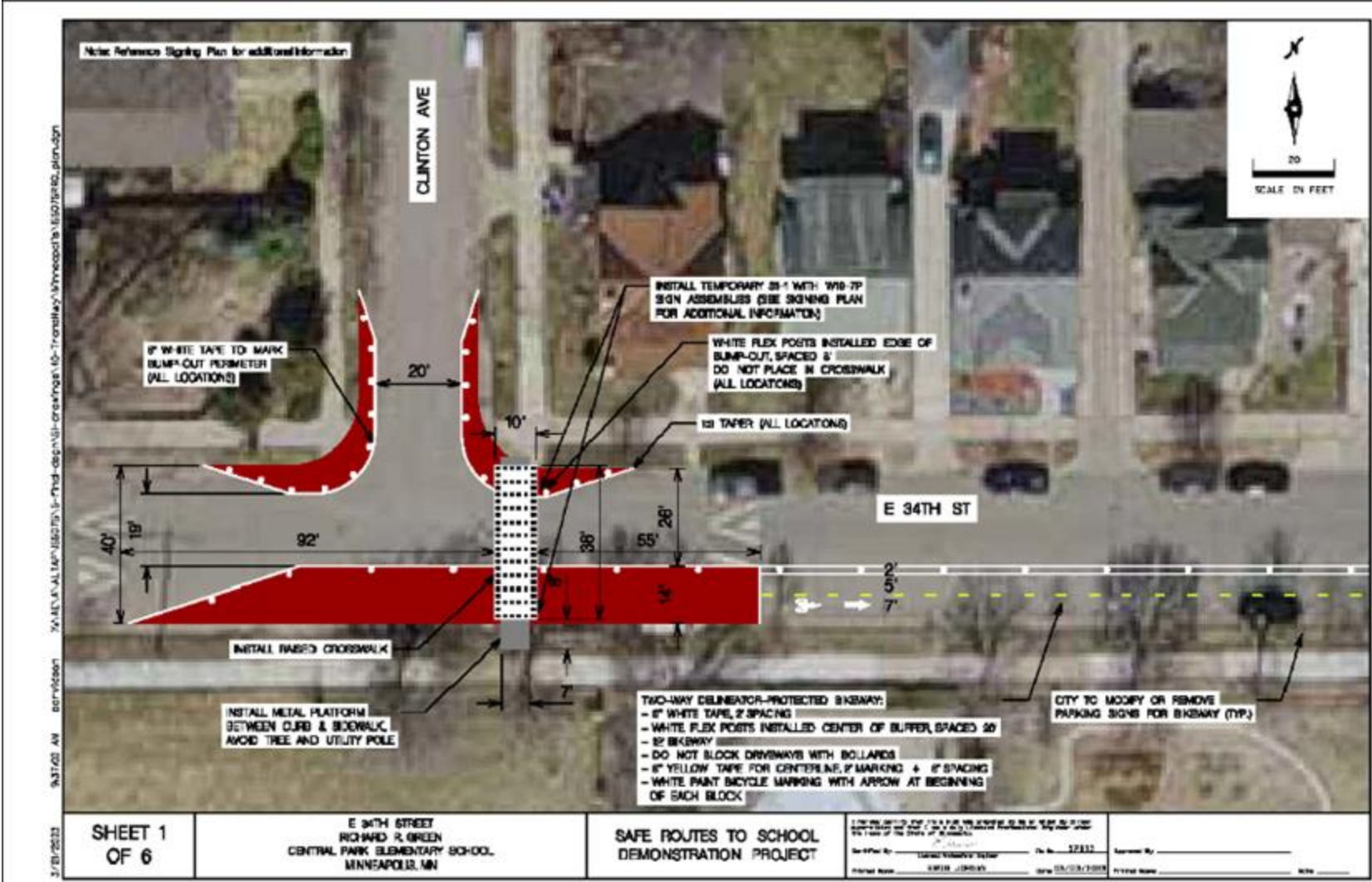
Fond du Lac, MN



New Hope, MN

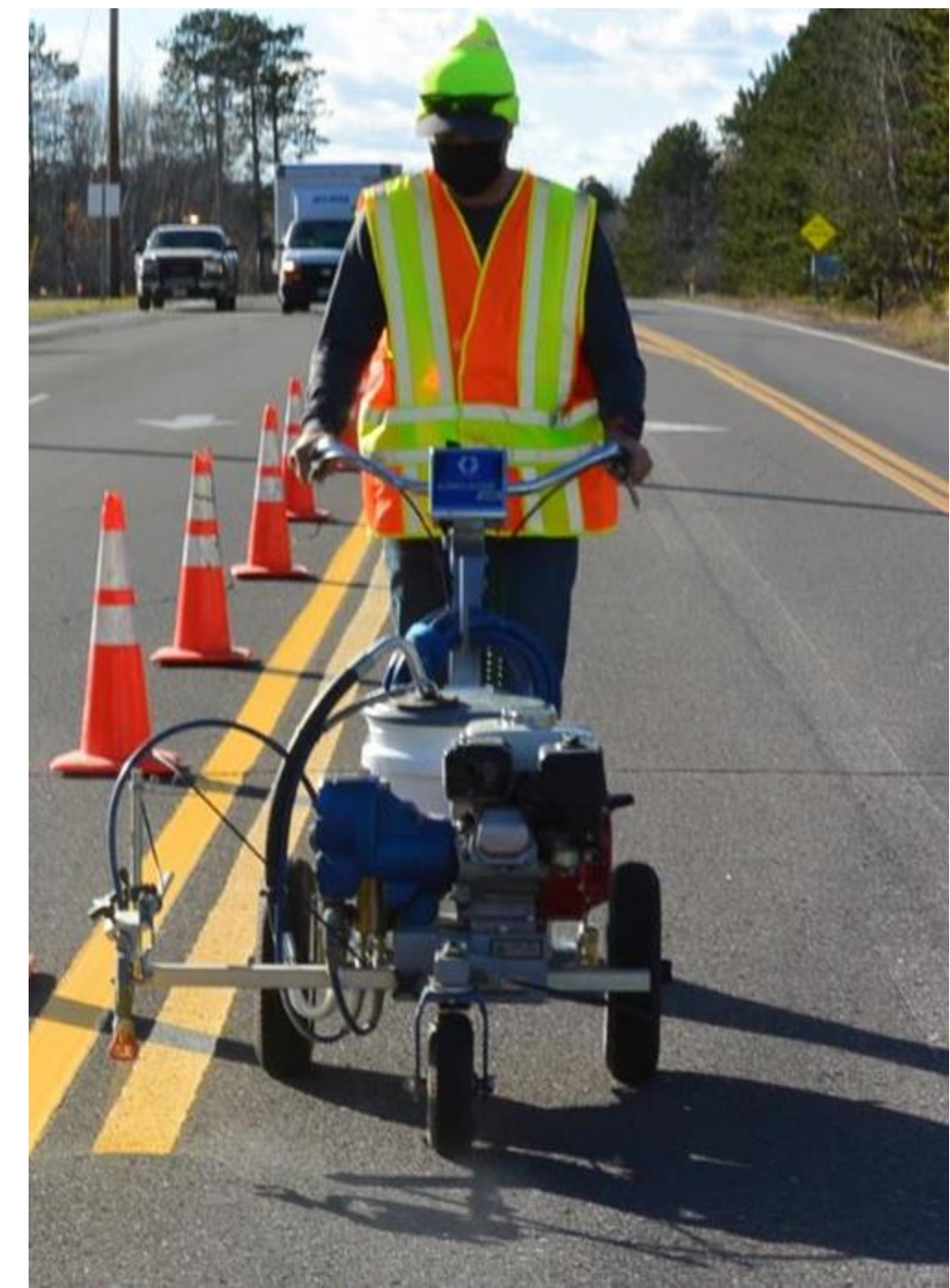


Green Central Elementary, Minneapolis



Lessons for Consideration

- Go where the plans are
- Engage!
- Evaluate!
- Take photos (document)
- Celebrate!
- Iterate the Process





HAZARDOUS MATERIALS
PROHIBITED FROM
EAST TUNNEL

N Bryant Av

DR 50

See more project examples here:
<http://tinyurl.com/mndotdemoprojects>



Questions?



Dave Cowan
Consulting and Program Support
Director
Safe Routes Partnership
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